

Scientific and Technical Information Center
SEARCH REQUEST FORM

Requester's Full Name: Jeffrey E. Russell Examiner #: 62785 Date: 6-23-2005
Art Unit: 1654 Phone Number: 2-0769 Serial Number: 10/049,748
Location (Bldg/Room#): REN 3 D19 (Mailbox #): 3C18 Results Format Preferred (circle) PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Melanocortin Metallopeptide Constructs, Combinatorial Libraries, And Applications

Inventors (please provide full names): S. Sharma, Y. Shi, Y. Wei, H. Cai

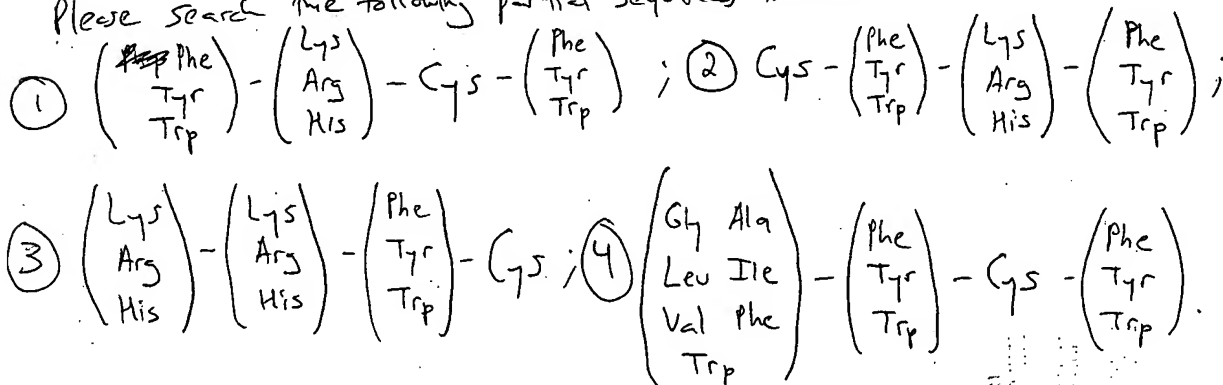
Earliest Priority Date: 6-15-2002

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the following partial sequences in STN:



Please require any sequence to have 8 or fewer residues

Please exclude from the answer set any reference with S. Sharma as an author or inventor.

If necessary, please use the keywords Rhenium/Re or Technetium/Tc to narrow any hits.

Thank you. *JER*

STAFF USE ONLY

Searcher: _____

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: _____

Searcher Prep & Review Time: _____

Online Time: _____

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

____ Structure (#)

____ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

____ STN _____ Dialog

____ Questel/Orbit _____ Lexis/Nexis

____ Westlaw _____ WWW/Internet

____ In-house sequence systems

____ Commercial _____ Oligomer _____ Score/Length
____ Interference _____ SPDI _____ Encode/Transl
____ Other (specify)

=> del his y

=> fil medl,biosis,embase,caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

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1.72

TOTAL
SESSION
359.66

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ENTRY
0.00

TOTAL
SESSION
-1.46

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=> s sharma s?/au;s sli y?/au or li y?/au;s wei y?/au;s cai h?/au

L1 4144 FILE MEDLINE
L2 6570 FILE BIOSIS
L3 3632 FILE EMBASE
L4 6398 FILE CAPLUS

TOTAL FOR ALL FILES

L5 20744 SHARMA S?/AU

L6 10006 FILE MEDLINE
L7 11498 FILE BIOSIS
L8 7357 FILE EMBASE
L9 36927 FILE CAPLUS

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

Russel

10/049718

JR
7-1-2005

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3
 DICTIONARY FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
*
*****
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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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=> s [fyw] [krh] c [fyw] /sqsp
L1      20268 [FYW] [KRH] C [FYW] /SQSP
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L2      21224 C [FYW] [KRH] [FYW] /SQSP
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L5      310374 4-8/SQL
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=> s (l1 or l2 or l3 or l4) and l5
L6      694 (L1 OR L2 OR L3 OR L4) AND L5
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=> s rhenium/cn;s technetium/cn
L7      1 RHENIUM/CN
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L8      1 TECHNETIUM/CN
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=> fil hcap;s l6
COST IN U.S. DOLLARS
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FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
125.09	125.94

FILE 'HCAPLUS' ENTERED AT 11:10:02 ON 30 JUN 2005
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FILE COVERS 1907 - 30 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 29 Jun 2005 (20050629/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L9 221 L6

=> s sharma s?/au
L10 6398 SHARMA S?/AU

=> s l9 not l10
L11 214 L9 NOT L10

=> s l11 and (l7 or l8 or rhenium or technetium)
17090 L7
3932 L8
33334 RHENIUM
8 RHENIUMS
33334 RHENIUM
(RHENIUM OR RHENIUMS)
16522 TECHNETIUM
1 TECHNETIUMS
16522 TECHNETIUM
(TECHNETIUM OR TECHNETIUMS)
L12 6 L11 AND (L7 OR L8 OR RHENIUM OR TECHNETIUM)

=> d 1-6 ibib abs hitstr

L12 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:501605 HCAPLUS
DOCUMENT NUMBER: 142:172648
TITLE: Optimization of biomolecules labelling with
rhenium-188 using direct and indirect methods
de Castiglia, S. G.; Crudo, J.; Obenaus, E.; Edreira,
M.; D'Orio, E.
CORPORATE SOURCE: Centro Atómico Ezeiza Comisión, Nacional de Energía
Atómica, Buenos Aires, Argent.
SOURCE: International Atomic Energy Agency, [Technical
Document], IAEA-TECDOC (2003), IAEA-TECDOC-1359,

Labeling Techniques of Biomolecules for Targeted
Radiotherapy, 31-44

CODEN: IAEIE2; ISSN: 1011-4289

DOCUMENT TYPE:

Report

LANGUAGE:

English

AB Active tetrafluorophenol-MAG3-188Re ester, obtained from S-benzoyl-MAG3, is useful for the preconjugate radiolabeling of a variety of biomols. The authors report the optimization of polyclonal IgG labeling by 188Re using S-benzoyl-MAG3 as a model for labeling monoclonal antibodies. They examined the in vitro stability of the labeled protein and its localization and excretion in mice with induced focal inflammation. Stability in serum was greater than 85.5% after 24 h. Biodistribution and imaging studies following administration to mice showed mainly renal and hepatic excretion and high IT/NT ratios (4.5 and 4.6) at 24 and 48 h, resp. Likewise, the monoclonal antibody 14f7 was labeled with 188Re using this technique and the same controls were carried out with the labeled protein but in mice bearing a tumor. Tumor uptake increased in 24 h from 3.9 to 8.8% ID/gr and stood constant since then. On the other hand, a direct labeling method was studied and lanreotide-188Re was obtained with almost 100% of radiochem. purity. Lanreotide was also labeled with 111In and 90Y through DOTA chelator, showing mainly renal excretion when administered to rats. Finally DOTA-TOC was labeled with 90Y and data showed that a lower mass is needed in order to label it with the same amount of activity than DOTA-lanreotide.

IT 189758-25-6P, 90Y-DOTA-TOC

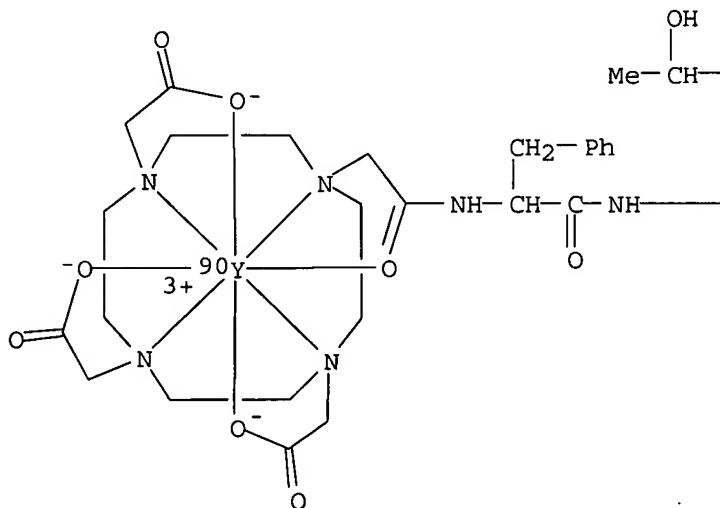
RL: PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(biomol. labeling with **rh**enium-188, indium-111, and yttrium-90, stability in saline and blood serum, and biodistribution in animals)

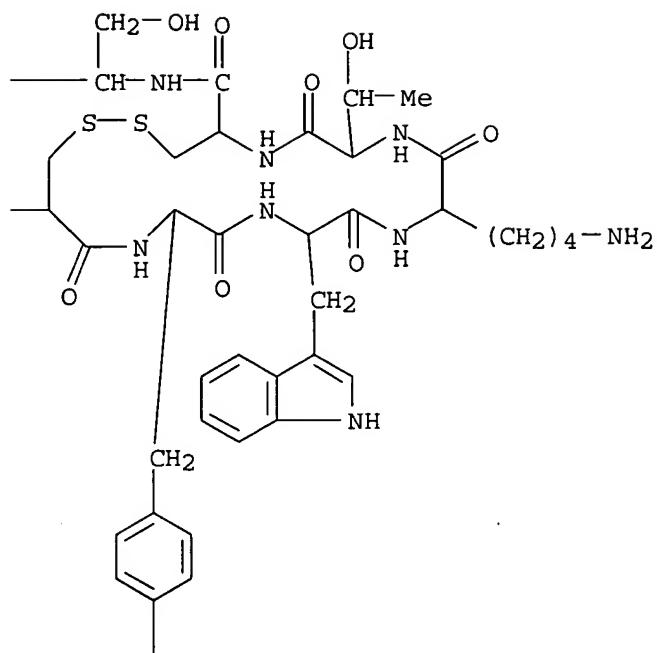
RN 189758-25-6 HCAPLUS

CN Yttrium-90Y, [N-[[4,7,10-tris[(carboxy-κO)methyl]-1,4,7,10-tetraazacyclododec-1-yl-κN1,κN4,κN7,κN10]acetyl-κO]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic (2→7)-disulfidato(3-)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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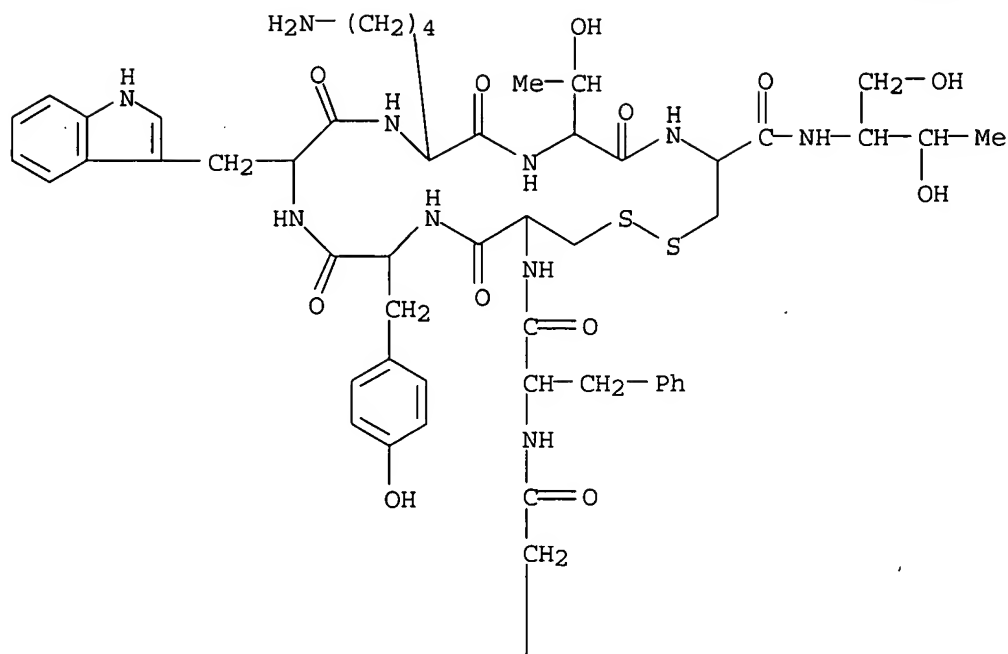


PAGE 2-B

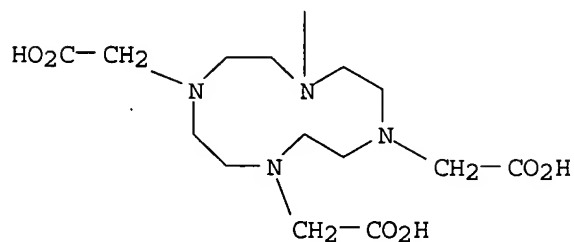


IT 204318-14-9, DOTA-TOC
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (biomol. labeling with **rhenium**-188, indium-111, and
 yttrium-90, stability in saline and blood serum, and biodistribution in
 animals)
 RN 204318-14-9 HCAPLUS
 CN L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-
 1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-
 threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic
 (2→7)-disulfide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:287861 HCAPLUS

DOCUMENT NUMBER: 140:320038

TITLE: Chimeric and humanized anti-granulocyte antibodies, immunoconjugates and labeled antibodies for diagnosis and treatment of malignancy, infection and inflammation

INVENTOR(S): Goldenberg, David M.; Hansen, Hans; Leung, Shui-on

PATENT ASSIGNEE(S): Immunomedics, Inc., USA; McCall, John Douglas

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

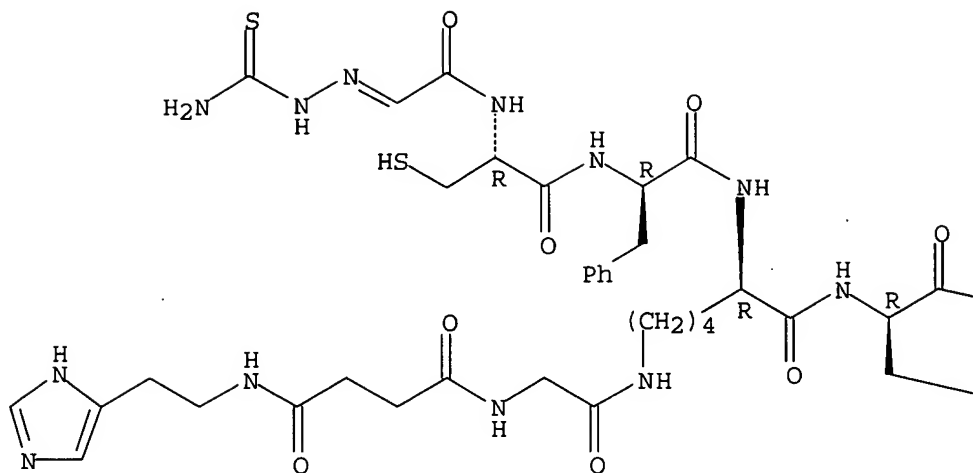
PATENT INFORMATION:

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

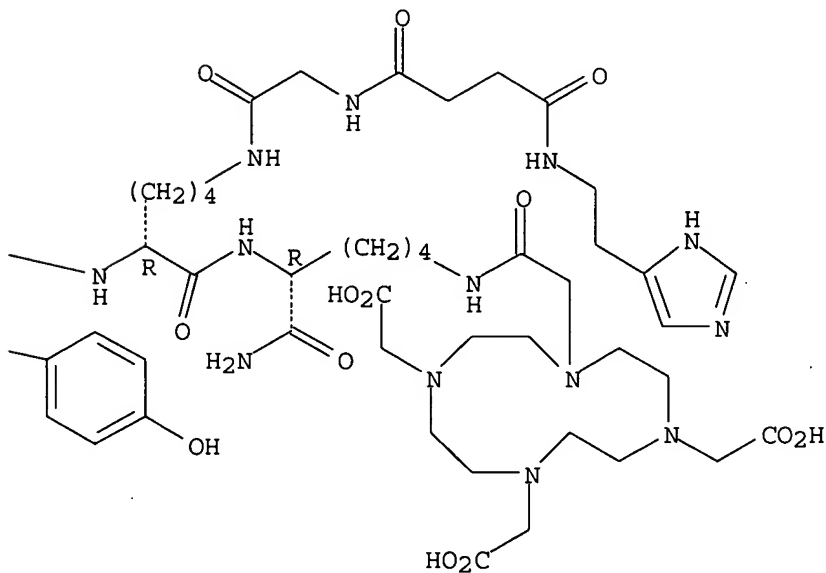
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004029093	A2	20040408	WO 2003-GB4229	20030930
WO 2004029093	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1546204	A2	20050629	EP 2003-751001	20030930
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2002-414341P	P 20020930
			WO 2003-GB4229	W 20030930
AB	The present invention provides humanized, chimeric and human MN3 antibodies, fusion proteins, and fragments that bind NCA90 and NCA95 antigens. The antibodies, fusion proteins, and fragments thereof, as well as combinations with other suitable antibodies, are useful for the treatment and diagnosis of granulocyte related disorders and diseases, such as leukemia.			
IT	676600-52-5 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (chimeric and humanized anti-granulocyte antibodies, immunoconjugates and labeled antibodies for diagnosis and treatment of malignancy, infection and inflammation)			
RN	676600-52-5 HCAPLUS			
CN	D-Lysinamide, N-[[[(aminothioxomethyl)hydrazono]acetyl]-L-cysteinyl-D-phenylalanyl-N6-[N-[4-[[2-(1H-imidazol-4-yl)ethyl]amino]-1,4-dioxobutyl]glycyl]-D-lysyl-D-tyrosyl-N6-[N-[4-[[2-(1H-imidazol-4-yl)ethyl]amino]-1,4-dioxobutyl]glycyl]-D-lysyl-N6-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



IT 7440-15-5, Rhenium, biological studies
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (chimeric and humanized anti-granulocyte antibodies, immunoconjugates and labeled antibodies for diagnosis and treatment of malignancy, infection and inflammation)
 RN 7440-15-5 HCAPLUS
 CN Rhenium (8CI, 9CI) (CA INDEX NAME)

Re

L12 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:867941 HCAPLUS
 DOCUMENT NUMBER: 139:369669
 TITLE: Benzothienyl analogue of somatostatin, selective for
 certain somatostatin receptors
 INVENTOR(S): De Jong, Marion; Maecke, Helmut Robert; Ginja, Mihaela;
 Krenning, Eric Paul; Reubi, Jean Claude
 PATENT ASSIGNEE(S): Biosynthema, Inc., USA
 SOURCE: Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1358890	A1	20031105	EP 2002-76757	20020503
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003092744	A2	20031113	WO 2003-EP4847	20030502
WO 2003092744	A3	20040401		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1501554	A2	20050202	EP 2003-722601	20030502
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			EP 2002-76757	A 20020503
			WO 2003-EP4847	W 20030502

OTHER SOURCE(S): MARPAT 139:369669

AB The invention relates to a peptide compound having an improved binding affinity to somatostatin receptors, comprising a peptide and a chelating group covalently linked to a free amino group of said peptide, wherein said peptide is or comprises a somatostatin analog carrying a 3-benzothienylalanine residue in its 3-position. The invention further relates to said peptide compound labeled with a detectable element or with a therapeutic radionuclide, as well as to a diagnostic method and to a method for the therapeutic treatment of tumors, by using the labeled compds.

IT 204318-14-9D, Y-90 labeled conjugates 209277-09-8D, Y-90 labeled conjugates

RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

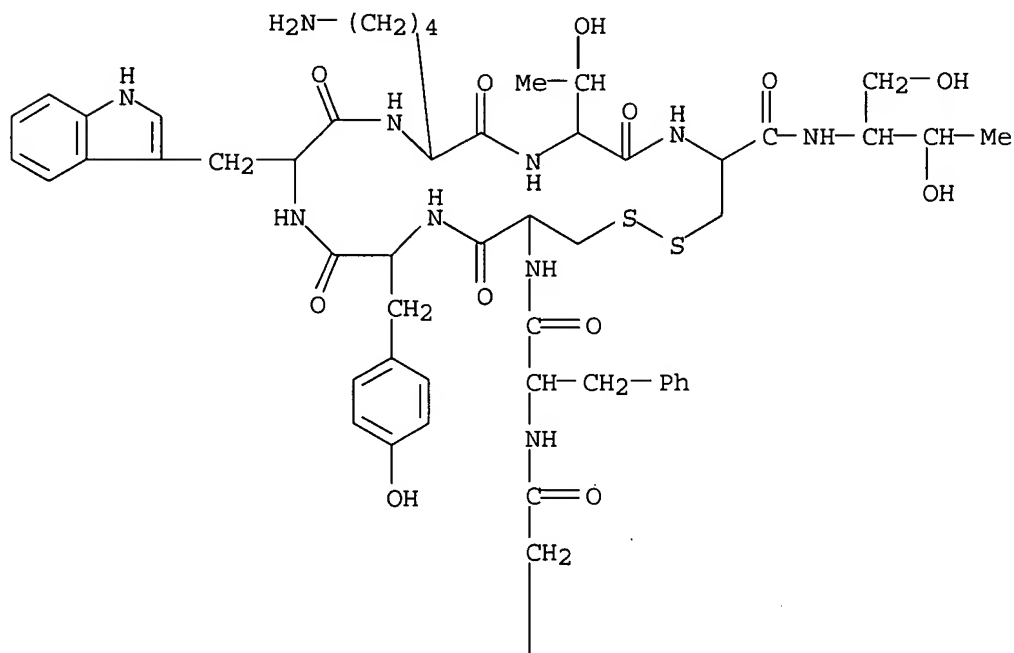
(somatostatin analog conjugates with diagnostic or therapeutic agents)

RN 204318-14-9 HCAPLUS

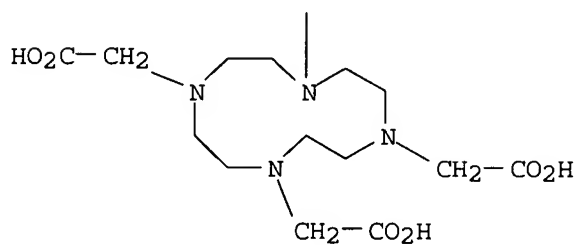
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threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic
(2→7)-disulfide (9CI) (CA INDEX NAME)

PAGE 1-A



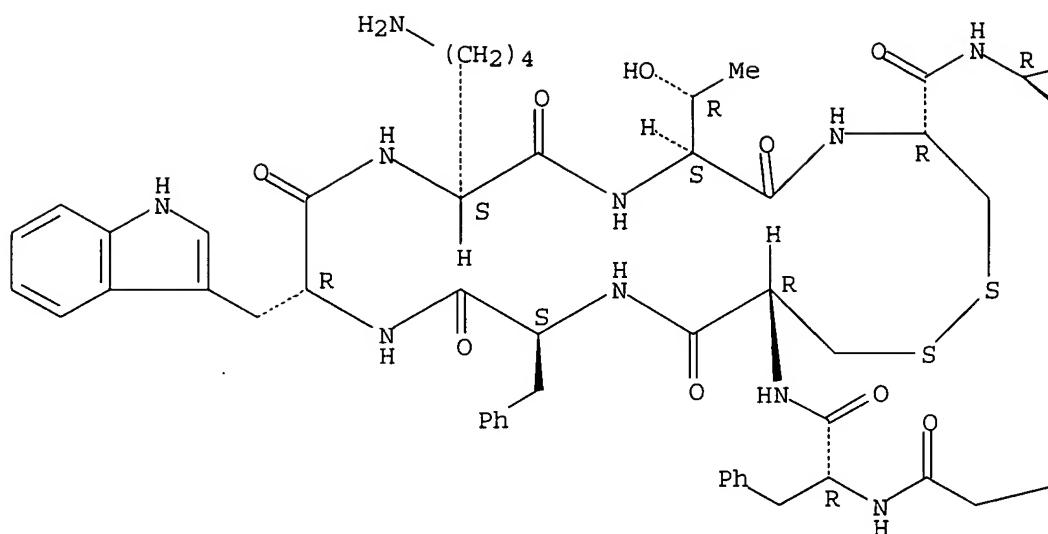
PAGE 2-A



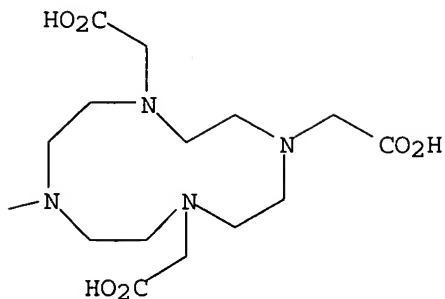
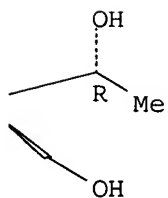
RN 209277-09-8 HCAPLUS
CN L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteiny-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic
(2→7)-disulfide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:836381 HCAPLUS

DOCUMENT NUMBER: 139:341719

TITLE: Use of bi-specific antibodies for pre-targeting diagnosis and therapy

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

INVENTOR(S): Goldenberg, David M.; Hansen, Hans J.; Leung, Shui-on;
 McBride, William J.; Qu, Zhengxing
 PATENT ASSIGNEE(S): Immunomedics, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 59 pp., Cont.-in-part of U.S.
 Ser. No. 823,746.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 16
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198595	A1	20031023	US 2002-150654	20020517
US 2002006379	A1	20020117	US 2001-823746	20010403
CA 2486307	AA	20031127	CA 2003-2486307	20030516
WO 2003097105	A1	20031127	WO 2003-GB2110	20030516
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1506018	A1	20050216	EP 2003-725404	20030516
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003010088	A	20050405	BR 2003-10088	20030516
US 2005002945	A1	20050106	US 2004-776470	20040211
PRIORITY APPLN. INFO.:				
			US 1998-90142P	P 19980622
			US 1998-104156P	P 19981014
			US 1999-382186	A2 19990823
			US 2001-823746	A2 20010403
			US 1999-337756	A2 19990622
			US 2002-150654	A 20020517
			WO 2003-GB2110	W 20030516

AB The present invention relates to a bi-specific antibody or antibody fragment having at least one arm that specifically binds a targeted tissue and at least one other arm that specifically binds a targetable construct. The targetable construct comprises a carrier portion which comprises or bears at least one epitope recognizable by at least one arm of said bi-specific antibody or antibody fragment. The targetable construct further comprises one or more therapeutic or diagnostic agents or enzymes. The invention provides constructs and methods for producing the bi-specific antibodies or antibody fragments, as well as methods for using them.

IT **615535-87-0D**, radiolabeled
 RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (bi-specific antibodies for pre-targeting diagnosis and therapy)

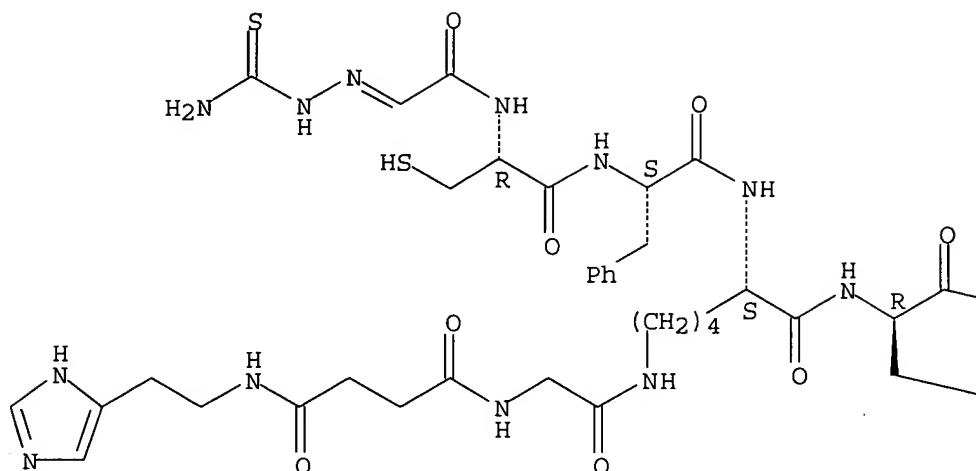
RN 615535-87-0 HCAPLUS

CN L-Lysinamide, N-[[[aminothioxomethyl]hydrazono]acetyl]-L-cysteinyl-L-phenylalanyl-N6-[N-[4-[[2-(1H-imidazol-4-yl)ethyl]amino]-1,4-dioxobutyl]glycyl]-L-lysyl-D-tyrosyl-N6-[N-[4-[[2-(1H-imidazol-4-yl)ethyl]amino]-1,4-dioxobutyl]glycyl]-L-lysyl-N6-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- (9CI) (CA

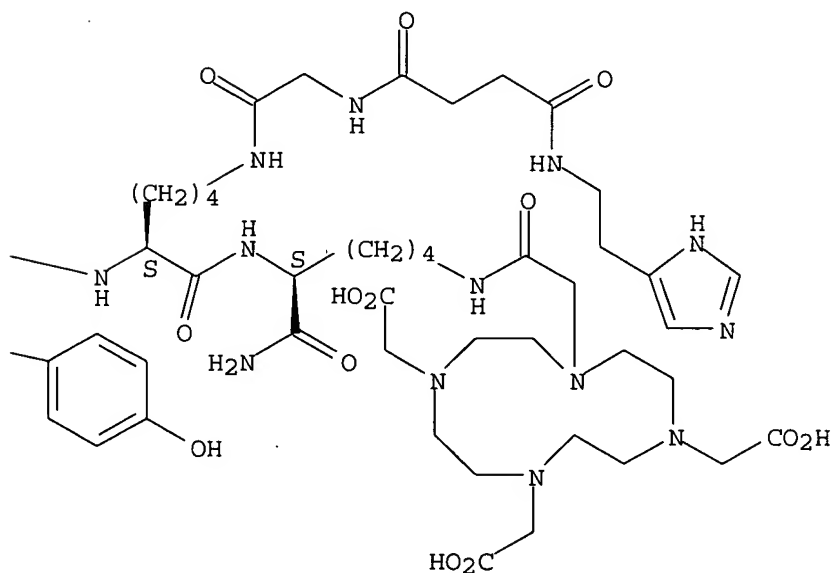
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



L12 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:754237 HCAPLUS

DOCUMENT NUMBER: 137:299886

TITLE: Serum albumin-binding moieties

INVENTOR(S): Sato, Aaron K.; Ley, Arthur C.; Cohen, Edward H.

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

PATENT ASSIGNEE(S): Dyax Corp., USA
 SOURCE: PCT Int. Appl., 199 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076489	A1	20021003	WO 2002-US7271	20020308
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2440582	AA	20021003	CA 2002-2440582	20020308
US 2003069395	A1	20030410	US 2002-94401	20020308
EP 1377306	A1	20040107	EP 2002-753771	20020308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004535373	T2	20041125	JP 2002-575002	20020308
PRIORITY APPLN. INFO.:			US 2001-331352P	P 20010309
			US 2001-292975P	P 20010523
			WO 2002-US7271	W 20020308

OTHER SOURCE(S): MARPAT 137:299886

AB Comps. comprising non-naturally occurring serum albumin-binding moieties are described, together with methods of use thereof, e.g., for detecting or isolating serum albumin mols. in a solution, for blood circulation imaging, and for linking therapeutics or other mols. to albumin. Preferred serum albumin-binding peptides having a high affinity for human serum albumin are particularly disclosed.

IT **7440-26-8, Technetium**, biological studies

RL: DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(peptide conjugates; serum albumin-binding peptides for imaging and drug delivery)

RN 7440-26-8 HCAPLUS

CN Technetium (8CI, 9CI) (CA INDEX NAME)

Tc

IT **463968-26-5**

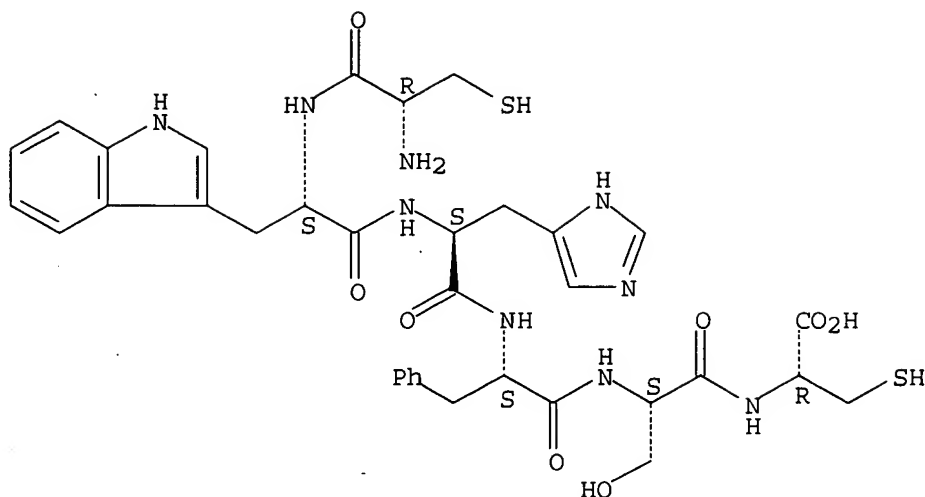
RL: DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(serum albumin-binding peptides for imaging and drug delivery)

RN 463968-26-5 HCAPLUS

CN L-Cysteine, L-cysteinyl-L-tryptophyl-L-histidyl-L-phenylalanyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:73387 HCAPLUS

DOCUMENT NUMBER: 134:127880

TITLE: Method to enhance tissue accumulation of radiolabeled compounds

INVENTOR(S): Woltering, Eugene A.; Espenan, Gregory D.

PATENT ASSIGNEE(S): Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, USA

SOURCE: U.S., 46 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6180082	B1	20010130	US 1998-198562	19981123
US 6630123	B1	20031007	US 2000-664456	20000918
PRIORITY APPLN. INFO.:			US 1997-160087P	P 19971124
			US 1998-198562	A1 19981123

AB Administration of a radioisotopic compound by infusion over a period of time greater than two hours, preferably greater than twelve hours, greatly increases the maximum radioactivity that accumulates in the target cell. Increasing tissue accumulation and retention of radiolabeled compds. improves their therapeutic and diagnostic value. The efficacy of the administration of the radiolabeled compound can be increased about five times higher than prior bolus injection or short infusion methods. This method enhances the tumor to background ratio by increasing the actual radioligand accumulated inside the target cells. This technique works for any radiolabeled compound whose cellular uptake is limited by a cellular process of either binding to a cellular receptor or to a transport protein. Once the radiolabeled compound is bound and internalized, the ability of an unlabeled compound to compete with the radioligand is markedly decreased. The primary factor governing residence time after internalization is the phys. half-life of the radioisotope, not biol. half-life. Preliminary results of clin. trial with ¹¹¹In-pentetreotide

infusions are presented.

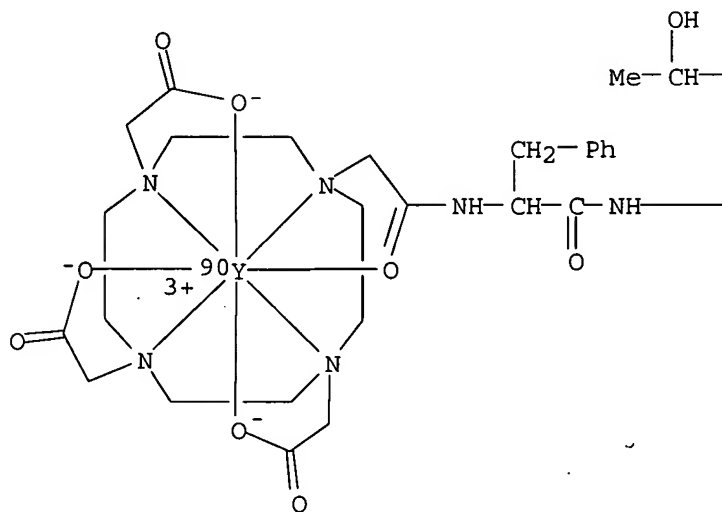
IT 189758-25-6 321999-23-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method for enhancing tumor and angiogenic tissue accumulation of
radiopharmaceuticals)

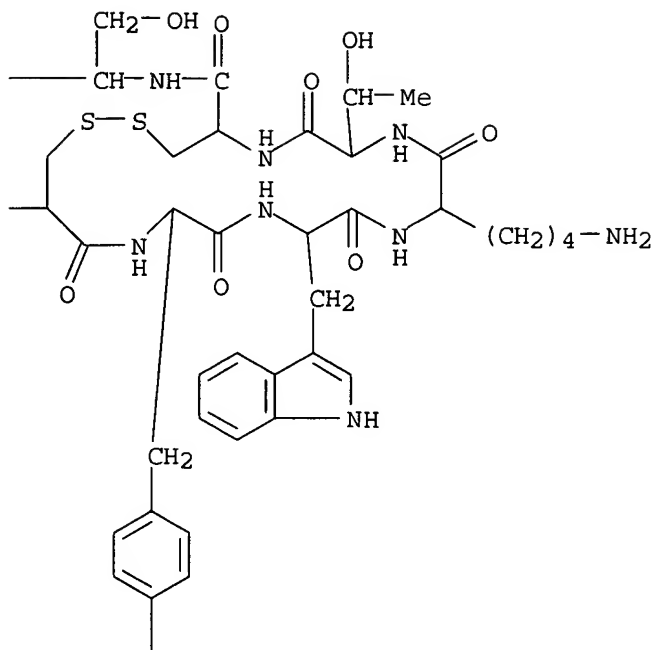
RN 189758-25-6 HCAPLUS

CN Yttrium-90Y, [N-[[4,7,10-tris[(carboxy-κO)methyl]-1,4,7,10-
tetraazacyclododec-1-yl-κN1,κN4,κN7,κN10]acetyl-
κO]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-
threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide
cyclic (2→7)-disulfidato(3-)]- (9CI) (CA INDEX NAME)

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PAGE 1-B

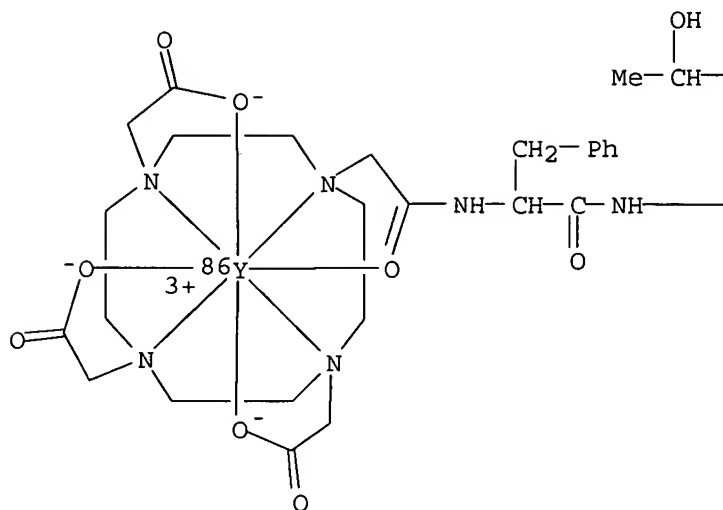


PAGE 2-B

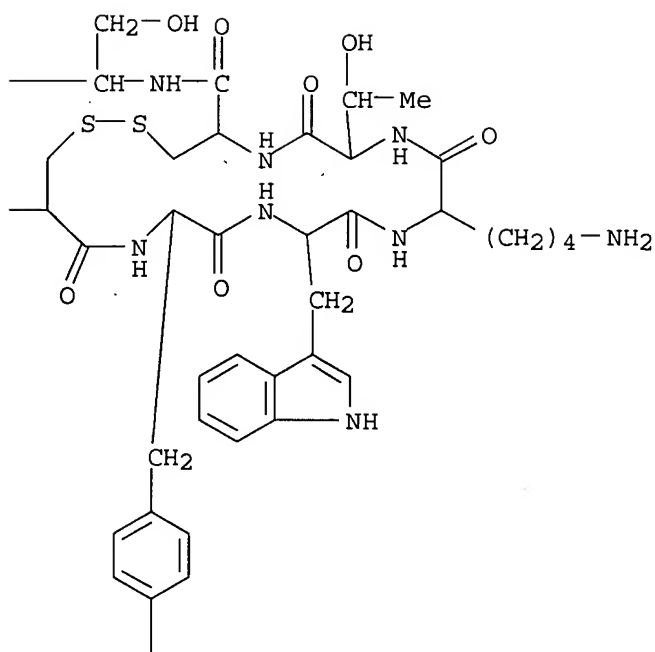


RN 321999-23-9 HCAPLUS
 CN Yttrium-86Y, [N-[[4,7-bis[(carboxy-κO)methyl]-10-(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl-κN1,κN4,κN7,κN10]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic (2→7)-disulfidato(3-)]-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



PAGE 2-B



REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

=> dis his

(FILE 'HOME' ENTERED AT 11:06:12 ON 30 JUN 2005)

FILE 'REGISTRY' ENTERED AT 11:07:56 ON 30 JUN 2005

FILE 'REGISTRY' ENTERED AT 11:07:58 ON 30 JUN 2005

L1 20268 S [FYW] [KRH] C[FYW]/SQSP
L2 21224 S C[FYW] [KRH] [FYW]/SQSP
L3 37510 S [KRH] [KRH] [FYW] C/SQSP
L4 81929 S [GALIVFW] [FYW] C[FYW]/SQSP
L5 310374 S 4-8/SQL
L6 694 S (L1 OR L2 OR L3 OR L4) AND L5
L7 1 S RHENIUM/CN
L8 1 S TECHNETIUM/CN

FILE 'HCAPLUS' ENTERED AT 11:10:02 ON 30 JUN 2005

L9 221 S L6
L10 6398 S SHARMA S?/AU
L11 214 S L9 NOT L10
L12 6 S L11 AND (L7 OR L8 OR RHENIUM OR TECHNETIUM)

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RUSSEL718_PART1 IS NOT A VALID SAVED NAME

Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:

1. Begin with a letter,
2. Have 1-12 characters,
3. Contain only letters (A-Z) and numbers (0-9),
4. End with /Q for a query (search profile,
structure, or screen set), /A for an answer
set, or /L for an L-number list.
5. Not already be in use as a saved name,
6. Not be END, SAV, SAVE, SAVED
7. Not have the form of an L-number (Lnnn).

ENTER NAME OR (END):end

=> save 19 russel718_pt1/a

RUSSEL718_PT1/A IS NOT A VALID SAVED NAME

Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:

1. Begin with a letter,
2. Have 1-12 characters,
3. Contain only letters (A-Z) and numbers (0-9),
4. End with /Q for a query (search profile,
structure, or screen set), /A for an answer
set, or /L for an L-number list.
5. Not already be in use as a saved name,
6. Not be END, SAV, SAVE, SAVED
7. Not have the form of an L-number (Lnnn).

ENTER NAME OR (END):

TOTAL FOR ALL FILES

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L11 1108 FILE MEDLINE
L12 1294 FILE BIOSIS
L13 875 FILE EMBASE
L14 4461 FILE CAPLUS

TOTAL FOR ALL FILES

L15 7738 WEI Y?/AU

L16 414 FILE MEDLINE
L17 517 FILE BIOSIS
L18 305 FILE EMBASE
L19 1334 FILE CAPLUS

TOTAL FOR ALL FILES

L20 2570 CAI H?/AU

=> s 15 and 110 and 115 and 120

L21 0 FILE MEDLINE
L22 0 FILE BIOSIS
L23 0 FILE EMBASE
L24 0 FILE CAPLUS

TOTAL FOR ALL FILES

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=> s (15 or 110 or 115 or 120) and (melanocortin or metallopeptide)

L26 14 FILE MEDLINE
L27 26 FILE BIOSIS
L28 11 FILE EMBASE
L29 39 FILE CAPLUS

TOTAL FOR ALL FILES

L30 90 (L5 OR L10 OR L15 OR L20) AND (MELANOCORTIN OR METALLOPEPTIDE)

=> s l30 and combinat? librar?

L31 0 FILE MEDLINE
L32 0 FILE BIOSIS
L33 0 FILE EMBASE
L34 3 FILE CAPLUS

TOTAL FOR ALL FILES

L35 3 L30 AND COMBINAT? LIBRAR?

=> d 1-3 ibib abs

L35 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:380441 CAPLUS

DOCUMENT NUMBER: 135:519

TITLE: Opioid metallopeptide compositions and methods

INVENTOR(S): Sharma, Shubh D.; Wei, Yang;
Cai, Hui-Zhi

PATENT ASSIGNEE(S): Palatin Technologies, Inc., USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001036006	A1	20010525	WO 2000-US31797	20001117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-166582P P 19991119

AB **Metallopeptides and metallopeptide combinatorial libraries** specific for opioids receptors are provided, for use in biol., pharmaceutical and related applications. The **metallopeptides and combinatorial libraries** are made of peptides, peptidomimetics and peptide-like constructs, in which the peptide, peptidomimetic or construct is conformationally fixed on complexation of a metal ion-binding portion thereof with a metal ion.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:137478 CAPLUS

DOCUMENT NUMBER: 134:188233

TITLE: **Melanocortin metallopeptide constructs, combinatorial libraries**, and applications

INVENTOR(S): **Sharma, Shubh D.**; Shi, Yi-Qun; Yang, Wei; **Cai, Hui-Zhi**

PATENT ASSIGNEE(S): Palatin Technologies, Inc., USA

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001013112	A1	20010222	WO 2000-US16396	20000615
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2379647	AA	20010222	CA 2000-2379647	20000615

EP 1208377 A1 20020529 EP 2000-944681 20000615
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2004519410 T2 20040702 JP 2001-517163 20000615
 PRIORITY APPLN. INFO.: US 1999-148994P P 19990812
 WO 2000-US16396 W 20000615

OTHER SOURCE(S): MARPAT 134:188233

AB **Metallopeptides and metallopeptide combinatorial libraries** specific for **melanocortin** receptors are provided, for use in biol., pharmaceutical and related applications. The **metallopeptides** and **combinatorial libraries** are made of peptides, peptidomimetics and peptide-like constructs, in which the peptide, peptidomimetic or construct is conformationally fixed on complexation of a metal ion-binding portion thereof with a metal ion.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT.

L35 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:421334 CAPLUS

DOCUMENT NUMBER: 133:55661

TITLE: **Metallopeptide combinatorial libraries** synthesis and applications

INVENTOR(S): **Sharma, Shubh D.**; Shi, Yiqun

PATENT ASSIGNEE(S): Palatin Technologies, Inc., USA

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000036136	A1	20000622	WO 1999-US29743	19991214
W:			AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:			GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
CA 2353072	AA	20000622	CA 1999-2353072	19991214
EP 1141375	A1	20011010	EP 1999-964263	19991214
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO	
JP 2002536295	T2	20021029	JP 2000-588384	19991214
AU 760257	B2	20030508	AU 2000-20541	19991214
US 2002012948	A1	20020131	US 2001-883069	20010614
PRIORITY APPLN. INFO.:			US 1998-112235P	P 19981214
			US 1995-476652	A 19950607
			US 1996-660697	A 19960605
			WO 1999-US29743	W 19991214

AB **Metallopeptide combinatorial libraries** and methods of making libraries and **metallopeptides** are provided for use in biol., pharmaceutical and related applications. The **combinatorial libraries** are made of peptides,

peptidomimetics and peptide-like constructs, and include a metal ion-binding region thereof which includes at least one orthogonal sulfur-protecting group, in which the peptide, peptidomimetic or construct is conformationally fixed on deprotection of the sulfur and complexation of the metal ion-binding region with a metal ion. Methods of synthesis of these **metallopeptides** are described. Thereafter the library members may be screened to select those with the desired specificity and affinity.

REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT